

DRILL HOLES

BARRIER REV: DATE: June 1, 2004

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## PROJECT DESCRIPTION

### I. GENERAL

This project involves the installation of a mast arm Intersection Control Beacon with street lighting at the intersection of US 50 (Ocean Gateway) and MD 610 (Whaleyville Rd) / Dale Rd in Worcester County. US 50 (Ocean Gateway) is assumed to run an east-west direction.

### II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA Flashing Operation mode, with the US 50 (Ocean Gateway) approaches indicating a Flashing "Yellow" display. The MD 610 (Whaleyville Rd) / Dale Rd approaches shall indicate a Flashing "Red" display.
- A full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

### III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

The contact persons for District #1 are as follows:

Mr. Gene Cofield  
Assistant District Engineer - Traffic  
Phone: (410) 677-4040

Mr. Jimmy Wright  
Assistant District Engineer - Maintenance  
Phone: (410) 543-6715

Mr. Bruce Poole  
Assistant District Engineer - Utility  
Phone: (410) 677-4082

Mr. Richard L. Daff, Sr.  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

Mr. Ed Rodenhizer  
Signal Shop  
410-787-7652

Mr. Sonny Bailey  
Sign Shop  
410-787-7670

The power company representative is:

Rodney Bain  
Delmarva Power  
2530 N. Salisbury Blvd  
Salisbury, MD 21802  
Phone: 410 860-6242

## EQUIPMENT LIST

### A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9042	Controller ASC II with telemetry	1 EA
9044	Controller cabinet, size "6"	1 EA
9570	Sheet aluminum signs to consist of: (ground mount) GUIDE SHIELD ASSEMBLY (24"x51") ground mounted. M3-2 "EAST" (24"x12") M1-4a "US 50" (24"x24") M6-2 "diagonal arrow" (21"x15")	17 SF 1 EA
9571	Sheet aluminum signs to consist of: (mast arm or pole mount) GUIDE SHIELD ASSEMBLY (24"x51") ground mounted. M3-4 "WEST" (24"x12") M1-4a "US 50" (24"x24") M6-2 "diagonal arrow" (21"x15") D3-2 "Dale Rd" sign, (variable x 16") mast arm. D3-2 "Ocean Gateway" sign, (variable x 16") mast arm. D3-2 "Whaleyville Rd" sign, (variable x 16") mast arm. GUIDE SHIELD ASSEMBLY (36"x75") pole mounted. M3-4 "WEST" (30"x15") M1-4a "US 50" (36"x36") M6-1 "right arrow" (30"x24") GUIDE SHIELD ASSEMBLY (36"x75") pole mounted. M3-2 "EAST" (30"x15") M1-4a "US 50" (36"x36") M6-1 "right arrow" (30"x24")	93 SF 1 EA 1 EA 1 EA 1 EA 1 EA

### B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	2 EA
2002	Test Pit Excavation	6 C.Y.
8001	12" LED (R & Y) signal head section.	12 EA
8007	Any size lighting arm on signal pole with 250 watt HPS lamp & luminaire.	1 EA
8019	Mast arm pole and 50' mast arm any "T" dimension	2 EA
8025	Twin mast arm pole and 50'/50' mast arms any "T" dimension.	2 EA
8034	Schedule 80 rigid PVC conduit up tp 4" - trenching.	250 L.F.
8035	Schedule 80 rigid PVC conduit up tp 4" - bored.	425 S.F.
8036	Wood sign supports up to 4"x6".	40 L.F.
8038	Install overhead or ground mounted sign	126 SF
8040	No. 6 AWG stranded bare copper ground wire.	890 L.F.
8042	Metered service pedestal embedded.	1 EA
8044	Electrical cable 1-conductor No. 4 AWG THHN/THWN.	50 L.F.
8046	Furnish and install electrical handhole.	7 EA
8055	Electrical cable - 5 conductor (No. 14 AWG).	150 L.F.
8056	Electrical cable - 7 conductor (No. 14 AWG).	2300 L.F.
8057	Electrical cable - 2 conductor (No. 12 AWG) tray cable.	480 L.F.
8064	Install controller and cabinet base mount.	1 EA

### C. EQUIPMENT TO BE REMOVED

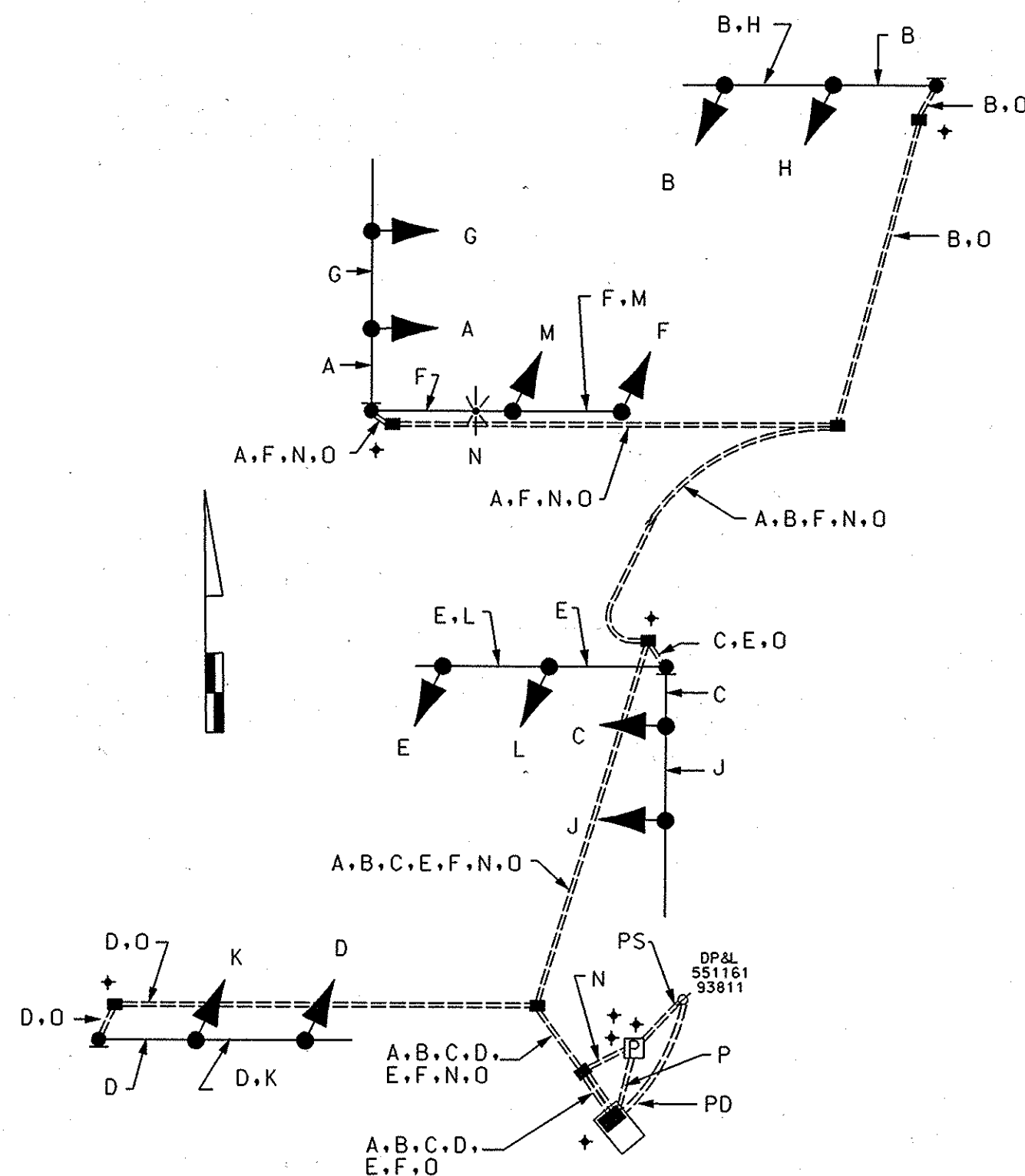
There is no signal equipment to be removed\* for this project.\*

## PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12
(Y)	(Y)	(Y)	(Y)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)

FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R
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## WIRING DIAGRAM



## WIRING KEY

- 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- N - 2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
- O - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- P - 3-1 CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- PS - PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY DELMARVA
- PD - PROPOSED PHONE DROP
- + - GROUND ROD

TOD NO: AT909-18  
SHA No: WO442A53/B53  
US 50 @ MD 610

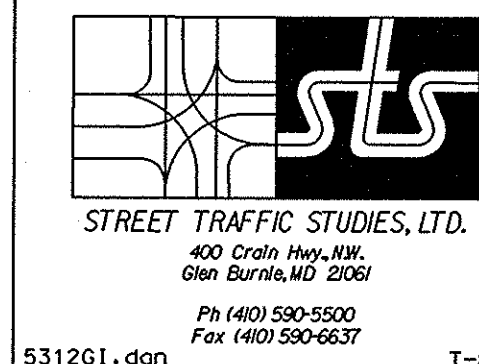
STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
US 50 (OCEAN GATEWAY)  
AND  
MD 610 (WHALEYVILLE ROAD) / DALE ROAD  
WHALEYVILLE, MARYLAND

## GENERAL INFORMATION SHEET

SCALE NONE DATE 4-10-07 CONTRACT NO. AT9095185

DESIGNED BY J W ALLEN COUNTY WORCESTER  
DRAWN BY R.C. LOGMILE 23005000.84  
CHECKED BY TIMS NO. 1096  
F.A.P. NO. TOD NO.

TS NO. 4575 DRAWING NO. 2 OF 2 SHEET NO. OF



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